

DF

DUCTED FAN COILS

HEATING AND COOLING HIDDEN IN THE ARCHITECTURE



HIGH CAPACITY

up to 9.3 kW cooling capacity, up to 25 kW heating capacity



QUIET OPERATION

low noise level from 34 dB(A)



LOW-PROFILE DESIGN

height from just 240 mm



AC OR EC MOTORS

up to 70% lower power consumption



2- AND 4-PIPE SYSTEMS

4-pipe versions
2+2 or 3+1 rows



DESIGNED FOR MODERN
ARCHITECTURE.
COMFORT TAKEN CARE OF

COMFORT YOU DON'T SEE. EFFICIENCY YOU FEEL.

DF ducted fan coils are designed for modern buildings where comfort, aesthetics and energy efficiency matter.

Thanks to their low-profile design, DF units integrate easily into suspended ceilings, while high heating and cooling capacity allows maintaining a comfortable microclimate all year round.

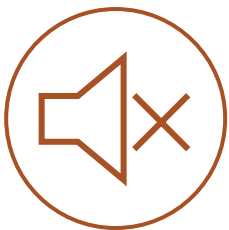
The DF series is offered in 2- and 4-pipe versions with AC or EC fan motors, so the solution can be adapted to offices, hotels and residential projects alike.

**HIDDEN IN THE ARCHITECTURE.
FELT IN THE COMFORT.**

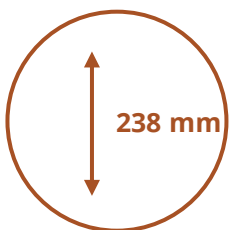
KEY DF ADVANTAGES



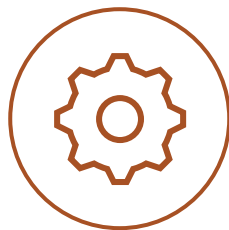
HIGH CAPACITY
up to **9.8 kW** cooling,
up to **25 kW** heating



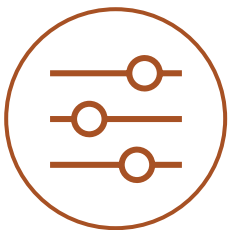
LOW NOISE LEVEL
from **34 dB(A)** comfort in
work and leisure spaces



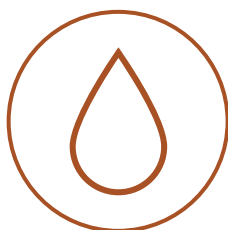
LOW PROFILE
height from just
238 mm



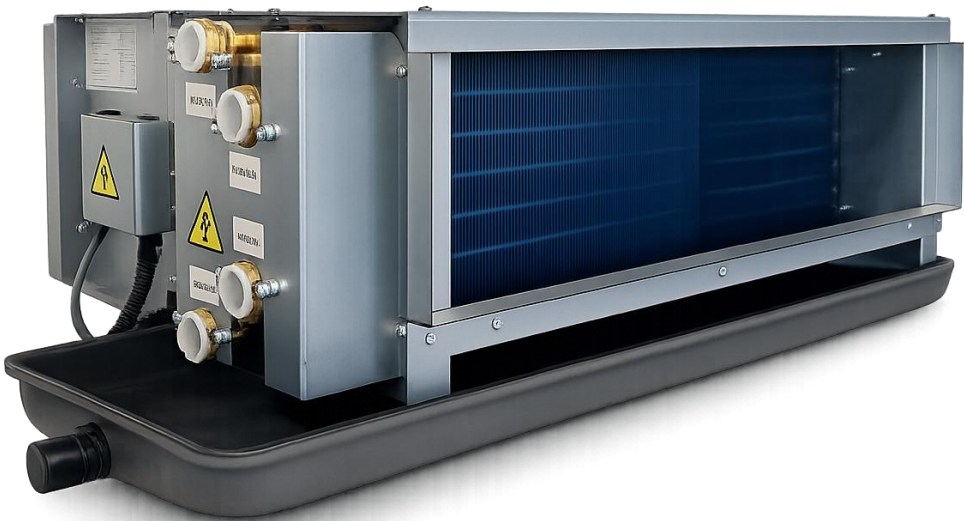
AC OR EC MOTORS
up to **35 %** lower
electricity consumption



2- AND 4-PIPE SYSTEMS
2-pipe
4-pipe **2+2**
4-pipe **3+1**



FOR HEAT PUMPS
optimized for low-
temperature systems



AIR FLOW
340-2380
m3/h



STATIC PRESSURE
up to **50 Pa**



WORKING PRESSURE
16 bar



WARRANTY
10 years on the
heat exchanger

COMFORT IN EVERY SPACE

DF fan coils are designed to ensure even and quiet air distribution while maintaining a pleasant microclimate all year round. Advanced design, efficient heat exchangers and quiet fans create comfortable conditions in work, leisure and living spaces — discreetly and reliably.



EVEN COMFORT

Optimal air flow and temperature maintenance throughout the space



QUIET OPERATION

An extremely low noise level from 34 dB(A) ensures peace and quiet every day



ENERGY EFFICIENCY

AC or EC motors help reduce electricity consumption by up to 70%



INVISIBLE SOLUTION

A low profile and concealed installation help preserve clean architecture



A perfect microclimate
you can rely on.

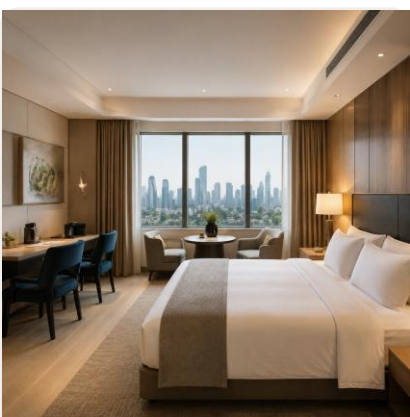
WHERE DOES DF FIT?

DF fan coils are a versatile solution for buildings of various purposes. Thanks to a wide model range and different configurations, they are easy to apply in both new and renovation projects.



OFFICE BUILDINGS

Reliable comfort for staff and visitors, quiet operation and energy savings.



HOTELS

Maximum guest comfort and individual climate control in every room.



SHOPPING CENTRES

Efficient heating and cooling over large areas, ensuring pleasant conditions for everyone.



APARTMENT AND RESIDENTIAL BUILDINGS

A comfortable microclimate in apartments and common areas, quiet and economical operation.



HOTELS

Maximum guest comfort and individual climate control in every room.



HEALTHCARE FACILITIES

A reliable solution that meets high requirements for comfort, hygiene and reliability.

DF2 or DF4?

THE CHOICE DEPENDS ON THE BUILDING'S COMFORT STRATEGY

DF ducted fan coils can be configured for 2- or 4-pipe systems. The right choice depends on the building purpose, heating and cooling sources and comfort requirements.



DF2

- ✓ simpler system
- ✓ heating OR cooling
- ✓ mostly for residential and offices

DF4

- ✓ simultaneous heating and cooling
- ✓ maximum comfort
- ✓ control of different zones
- ✓ for hotels and premium projects

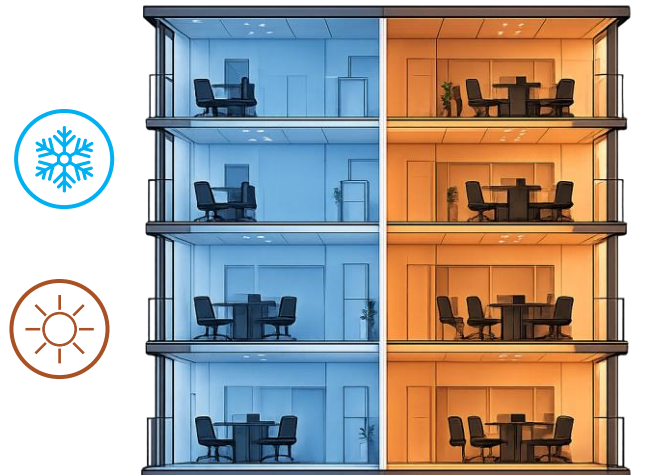
WHEN TO CHOOSE DF2?

When the whole building operates in heating or cooling mode at the same time.



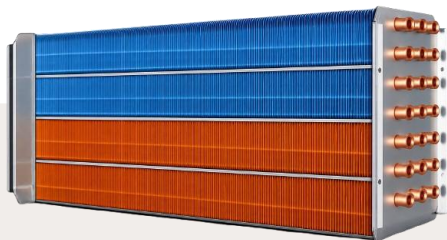
WHEN TO CHOOSE DF4?

When different zones need heating and cooling at the same time.



3+1 OR 2+2 HEAT EXCHANGER?

4-pipe DF models can be configured with two different heat exchanger configurations.

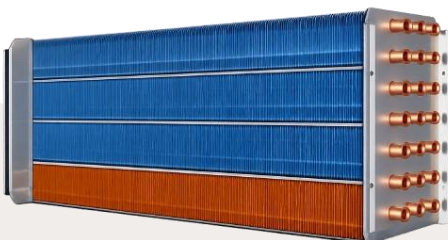


3+1

**3 rows for cooling
1 row for heating**

Suitable for:

- ✓ offices
- ✓ shopping centres
- ✓ glass facades
- ✓ projects dominated by cooling



2+2

**2 rows for cooling
2 rows for heating**

Suitable for:

- ✓ hotels
- ✓ residential projects
- ✓ mixed climate
- ✓ when heating is as important as cooling

AC OR EC?



FEATURE	AC	EC
 Control	3 speeds	0-10 V
 Energy consumption	standard	up to 70% lower
 Air-flow adjustment	stepped	precise
 Noise level	standard	low
 BMS integration	limited	full



EC TECHNOLOGY

up to 70% lower fan energy consumption and more precise comfort control.

DF2 AC

2-PIPE DUCTED FAN COIL WITH AC MOTOR

A RELIABLE SOLUTION FOR EVERYDAY PROJECTS

DF2 AC ducted fan coils are an efficient and economical solution for heating and cooling with a single heat exchanger. Their compact design, low profile and wide performance range make them ideal for offices, hotels, residential and commercial buildings.



2-PIPE SYSTEM

Heating or cooling, one mode at a time.



AC MOTOR

A reliable asynchronous fan motor.



HEATING AND COOLING

Comfort in all seasons.

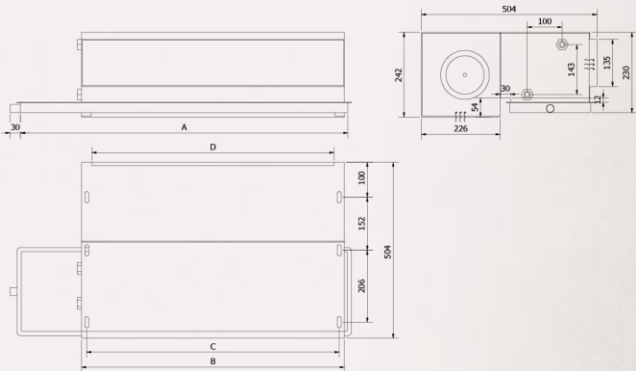


FOR OFFICES AND RETAIL

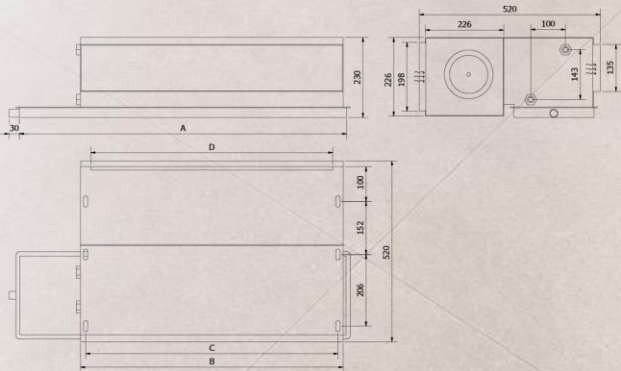
Broad application for a variety of projects.

DIMENSIONS

REAR AIR INTAKE



BOTTOM AIR INTAKE



Model	DF23-34-8	DF25-128-8	DF25-136-8	DF23-170-8	DF25-204-8	DF25-238-8
A	640	740	940	1140	1740	1840
B	505	555	755	965	1280	1620
C	475	555	820	970	1230	1590
D	445	525	695	905	1450	1580

Model	DF23-34-8	DF25-128-8	DF25-136-8	DF23-170-8	DF25-204-8	DF25-238-8
A	640	740	940	1140	1740	1840
B	505	555	755	965	1280	1620
C	475	555	820	970	1230	1590
D	445	525	695	905	1450	1580

TECHNICAL DATA

DF2 AC

 **AIR FLOW**
340-2890
m³/h

 **COOLING CAPACITY**
1,0-9,8
kW

 **HEATING CAPACITY**
4,3-25,0
kW

Model			DF23-34-B-AC DF23-34-E-AC	DF23-51-B-AC DF23-51-E-AC	DF23-68-B-AC DF23-68-E-AC	DF23-85-B-AC DF23-85-E-AC	DF23-102-B-AC DF23-102-E-AC	DF23-136-B-AC DF23-136-E-AC	DF23-170-B-AC DF23-170-E-AC	DF23-204-B-AC DF23-204-E-AC	DF23-238-B-AC DF23-238-E-AC
Air flow	m3/h	Max.	340	510	680	850	1020	1360	1700	2040	2380
		Avg.	255	382	510	637	765	1122	1402	1683	1927
		Min.	170	255	340	425	510	850	1062	1275	1487
Total cooling capacity 7/12/25 °C	kW	Max.	1 649	2 388	3 151	3 687	4 703	6 358	7 290	9 016	9 808
		Avg.	1 418	2 053	2 710	3 171	4 045	5 467	6 270	7 754	8 435
		Min.	1 039	1 504	1 985	2 323	2 963	4 005	4 593	5 680	6 179
Sensible cooling capacity 7/12/25 °C	kW	Max.	1 371	1 959	2 553	2 974	3 808	5 056	5 849	7 175	7 799
		Avg.	1 179	1 685	2 195	2 558	3 275	4 348	5 030	6 171	6 707
		Min.	864	1 234	1 608	1 874	2 399	3 185	3 685	4 520	4 913
Heating capacity 7/12/25 °C	kW	Max.	4 330	6 200	8 545	9 625	12 110	16 680	18 695	22 665	25 010
		Avg.	3 724	5 332	7 349	8 278	10 415	14 345	16 078	19 492	21 509
		Min.	3 161	4 526	6 238	7 026	8 840	12 176	13 647	16 545	18 257
Power supply voltage			220~230V / 1Ph / 50 or 60Hz								
Max. power	W	12Pa	28	34	55	68	87	125	152	185	205
		30Pa	42	55	68	87	108	142	174	210	253
		50Pa	49	66	84	100	118	174	210	250	300
Max. current	A	12Pa	0.12	0.15	0.24	0.30	0.38	0.54	0.66	0.80	0.89
		30Pa	0.18	0.24	0.30	0.38	0.47	0.62	0.76	0.91	1.10
		50Pa	0.21	0.29	0.37	0.43	0.51	0.76	0.91	1.09	1.30
Max. sound level	dB(A)	12Pa	34	35	38	42	43	44	46	48	49
		30Pa	37	38	41	44	45	46	48	48	49
		50Pa	42	44	46	47	49	50	52	54	56
Max. water flow	l/h	Cooling	284	411	542	634	809	1093	1254	1551	1687
		Heating	372	533	735	828	1041	1434	1607	1949	2150
Max. pressure loss	kPa	Cooling	20	20	20	30	40	40	40	40	50
		Heating	7	13	22	28	27	47	23	33	39
Max. working pressure	Mpa		1.6								
Insulation class			E								
Fan type			Centrifugal								
Motor type			Asynchronous 4-speed AC motor								
Heat exchanger type			2-pipe / 3-row								
Heat exchanger material			Copper – aluminium								
Pipe connections			3/4" internal thread								
Condensate pipe connections			3/4" external thread								
Unit dimensions (L/W/H)	mm		680x493x240	880x493x240	980x493x240	1080x493x240	1180x493x240	1380x493x240	1480x493x240	1880x493x240	1880x493x240
Package dimensions (L/W/H)	mm		690x505x250	890x505x250	990x505x250	1090x505x250	1190x505x250	1390x505x250	1490x505x250	1890x505x250	1890x505x250
Net weight	kg		11.0	11.9	15.0	16.0	17.4	22.1	24.0	29.2	30.4
Gross weight	kg		12.2	13.3	16.6	17.7	19.2	24.4	26.3	32.2	33.4

2-PIPE DUCTED FAN COIL WITH EC MOTOR

DF2 EC ducted fan coils are an energy-saving solution for heating and cooling with a single heat exchanger. The advanced EC motor ensures precise air-flow control, lower electricity consumption and quiet operation across the entire operating range.



Lower energy consumption
and operating costs.



Smooth and precise fan-speed control.



Constant comfort as room conditions change.



A low noise level ensures comfort at any time.



Heating or cooling, one mode at a time.



An energy-saving,
variable-speed motor.

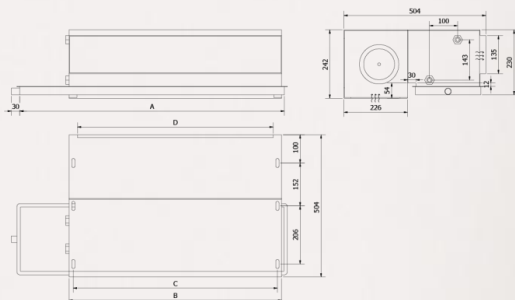


Efficient comfort all
year round.



The ideal choice for
offices, hotels and
commercial spaces.

REAR AIR INTAKE



Model	DF23-34-8	DF25-128-8	DF25-136-8	DF23-170-8	DF25-204-8	DF25-238-8
A	640	740	940	1140	1740	1840
B	505	555	755	965	1280	1620
C	475	555	820	970	1230	1590
D	445	525	695	905	1450	1580

TECHNICAL DATA

DF2 EC



AIR FLOW

340-2380

m³/h



COOLING CAPACITY

1,0-9,8

kW



HEATING CAPACITY

4,3-25,0

kW

Model			DF23-34-B-EC DF23-34-E-EC	DF23-51-B-EC DF23-51-E-EC	DF23-68-B-EC DF23-68-E-EC	DF23-85-B-EC DF23-85-E-EC	DF23-102-B-EC DF23-102-E-EC	DF23-136-B-EC DF23-136-E-EC	DF23-170-B-EC DF23-170-E-EC	DF23-204-B-EC DF23-204-E-EC	DF23-238-B-EC DF23-238-E-EC
Air flow	m3/h	Max.	340	510	680	850	1020	1360	1700	2040	2380
		Avg.	255	382	510	637	765	1122	1402	1683	1927
		Min.	170	255	340	425	510	850	1062	1275	1487
Total cooling capacity 7/12/25 °C	kW	Max.	1 649	2 388	3 151	3 687	4 703	6 358	7 290	9 016	9 808
		Avg.	1 418	2 053	2 710	3 171	4 045	5 467	6 270	7 754	8 435
		Min.	1 039	1 504	1 985	2 323	2 963	4 005	4 593	5 680	6 179
Sensible cooling capacity 7/12/25 °C	kW	Max.	1 371	1 959	2 553	2 974	3 808	5 056	5 849	7 175	7 799
		Avg.	1 179	1 685	2 195	2 558	3 275	4 348	5 030	6 171	6 707
		Min.	864	1 234	1 608	1 874	2 399	3 185	3 685	4 520	4 913
Heating capacity 7/12/25 °C	kW	Max.	4 330	6 200	8 545	9 625	12 110	16 680	18 695	22 665	25 010
		Avg.	3 724	5 332	7 349	8 278	10 415	14 345	16 078	19 492	21 509
		Min.	3 161	4 526	6 238	7 026	8 840	12 176	13 647	16 545	18 257
Power supply voltage			220~230V / 1Ph / 50 or 60Hz								
Max. power	W	12Pa	17	20	36	44	56	78	88	114	139
		30Pa	26	34	42	51	63	91	101	140	166
		50Pa	29	38	49	56	80	101	125	173	208
Max. current	A	12Pa	0.07	0.09	0.16	0.19	0.24	0.34	0.38	0.50	0.60
		30Pa	0.11	0.15	0.18	0.22	0.27	0.40	0.44	0.61	0.72
		50Pa	0.13	0.17	0.21	0.24	0.35	0.44	0.54	0.75	0.90
Max. sound level	dB(A)	12Pa	35	37	39	41	43	44	46	48	50
		30Pa	38	40	42	44	45	46	48	50	52
		50Pa	40	42	44	45	47	48	50	52	54
Max. water flow	l/h	Cooling	284	411	542	634	809	1093	1254	1551	1687
		Heating	372	533	735	828	1041	1434	1607	1949	2150
Max. pressure loss	kPa	Cooling	20	20	20	30	40	40	40	40	50
		Heating	7	13	22	28	27	47	23	33	39
Max. working pressure	Mpa		1.6								
Insulation class			E								
Fan type			Centrifugal								
Motor type			EC motor with 0-10 V control								
Heat exchanger type			2-pipe / 3-row								
Heat exchanger material			Copper – aluminium								
Pipe connections			3/4" internal thread								
Condensate pipe connections			3/4" external thread								
Unit dimensions (L/W/H)	mm		680*493*240	880*493*240	980*493*240	1080*493*240	1180*493*240	1380*493*240	1480*493*240	1880*493*240	1880*493*240
Package dimensions (L/W/H)	mm		690*505*250	890*505*250	990*505*250	1090*505*250	1190*505*250	1390*505*250	1490*505*250	1890*505*250	1890*505*250
Net weight	kg		11.4	12.5	15.5	16.5	17.9	23.9	25.7	30.7	31.6
Gross weight	kg		12.6	13.8	17.0	18.2	19.7	26.2	28.1	33.7	34.6

DF422 AC

4-PIPE DUCTED FAN COIL WITH AC MOTOR 2+2-ROW HEAT EXCHANGER

DF422 AC ducted fan coils are designed for projects where heating and cooling are equally important. The 2+2-row heat exchanger provides balanced capacity in both modes and enables efficient comfort control all year round.





4-PIPE SYSTEM

Independent heating and cooling.



AC MOTOR

A reliable asynchronous fan motor.



HEATING AND COOLING

Comfort in all seasons.



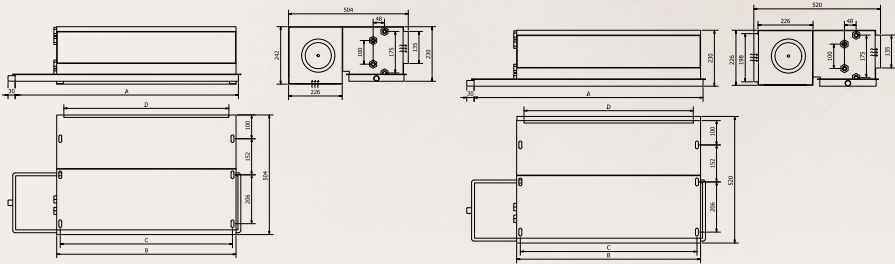
2+2 HEAT EXCHANGER

Balanced capacity for heating and cooling.

WHEN TO CHOOSE 2+2?

- ✓ Hotels
- ✓ Residential projects
- ✓ Mixed climate
- ✓ When heating is as important as cooling.

BOTTOM AIR INTAKE



Mode I	DF422-34-E	DF422-51-E	DF422-68-E	DF422-85-E	DF422-102-E	DF422-136-E	DF422-170-	DF422-204-E	DF422-238-E
A	640	740	940	1040	1140	1340	1140	1740	1840
B	505	585	755	840	965	1160	1260	1510	1620
C	475	555	725	810	935	1130	1230	1480	1590
D	445	525	695	780	905	1100	1200	1450	1560

TECHNICAL DATA

DF422 AC



AIR FLOW

340-2380

m³/h



COOLING CAPACITY

0,9-7,4

kW



HEATING CAPACITY

4,4-22,9

kW

Model			DF422-34-B-AC DF422-34-E-AC	DF422-51-B-AC DF422-51-E-AC	DF422-68-B-AC DF422-68-E-AC	DF422-85-B-AC DF422-85-E-AC	DF422-102-B-AC DF422-102-E-AC	DF422-136-B-AC DF422-136-E-AC	DF422-170-B-AC DF422-170-E-AC	DF422-204-B-AC DF422-204-E-AC	DF422-238-B-AC DF422-238-E-AC
Air flow	m3/h	Max.	340	510	680	850	1020	1360	1700	2040	2380
		Avg.	255	382	510	637	765	1122	1402	1683	1927
		Min.	170	255	340	425	510	850	1062	1275	1487
Total cooling capacity 7/12/25 °C	kW	Max.	1 387	2 026	2 676	3 336	4 022	4 881	5 570	6 856	7 418
		Avg.	1 193	1 742	2 301	2 869	3 459	4 198	4 790	5 896	6 379
		Min.	874	1 276	1 686	2 101	2 534	3 075	3 509	4 319	4 673
Sensible cooling capacity 7/12/25 °C	kW	Max.	1 221	1 739	2 344	2 876	3 401	4 191	4 885	5 983	6 459
		Avg.	1 050	1 496	2 016	2 474	2 925	3 604	4 201	5 145	5 554
		Min.	769	1 096	1 477	1 812	2 143	2 640	3 077	3 769	4 069
Heating capacity 7/12/25 °C	kW	Max.	4 370	6 340	8 480	10 440	12 475	14 895	17 525	21 275	22 865
		Avg.	3 627	5 262	7 038	8 665	10 354	12 363	14 546	17 658	18 978
		Min.	3 190	4 628	6 190	7 621	9 107	10 873	12 793	15 531	16 691
Power supply voltage			220~230V / 1Ph / 50 or 60Hz								
Max. power	W	12Pa	28	34	55	68	87	125	152	185	205
		30Pa	42	55	68	87	108	142	174	210	253
		50Pa	49	66	84	100	118	174	210	250	300
Max. current	A	12Pa	0.12	0.15	0.24	0.30	0.38	0.54	0.66	0.80	0.89
		30Pa	0.18	0.24	0.30	0.38	0.47	0.62	0.76	0.91	1.10
		50Pa	0.21	0.29	0.37	0.43	0.51	0.76	0.91	1.09	1.30
Max. sound level	dB(A)	12Pa	35	37	39	41	43	44	46	48	50
		30Pa	38	40	42	44	45	46	48	50	52
		50Pa	40	42	44	45	47	48	50	52	54
Max. water flow	l/h	Cooling	238	348	460	574	692	839	958	1179	1276
		Heating	376	545	729	898	1073	1281	1507	1829	1966
Max. pressure loss	kPa	Cooling	20	20	20	30	40	40	40	40	50
		Heating	7	15	10	14	25	20	16	16	20
Max. working pressure	Mpa		1.6								
Insulation class			E								
Fan type			Centrifugal								
Motor type			Asynchronous 4-speed AC motor								
Heat exchanger type			4-pipe / 2+2-row								
Heat exchanger material			Copper – aluminium								
Pipe connections			3/4" internal thread								
Condensate pipe connections			3/4" external thread								
Unit dimensions (L/W/H)	mm		680*493*240	880*493*240	980*493*240	1080*493*240	1180*493*240	1380*493*240	1480*493*240	1880*493*240	1880*493*240
Package dimensions (L/W/H)	mm		690*505*250	890*505*250	990*505*250	1090*505*250	1190*505*250	1390*505*250	1490*505*250	1890*505*250	1890*505*250
Net weight	kg		11.0	11.9	15.0	16.0	17.4	22.1	24.0	29.2	30.4
Gross weight	kg		12.2	13.3	16.6	17.7	19.2	24.4	26.3	32.2	33.4

TECHNICAL DATA

DF422 EC



AIR FLOW

340-2380

m³/h



COOLING CAPACITY

0,9-7,4

kW



HEATING CAPACITY

4,4-22,9

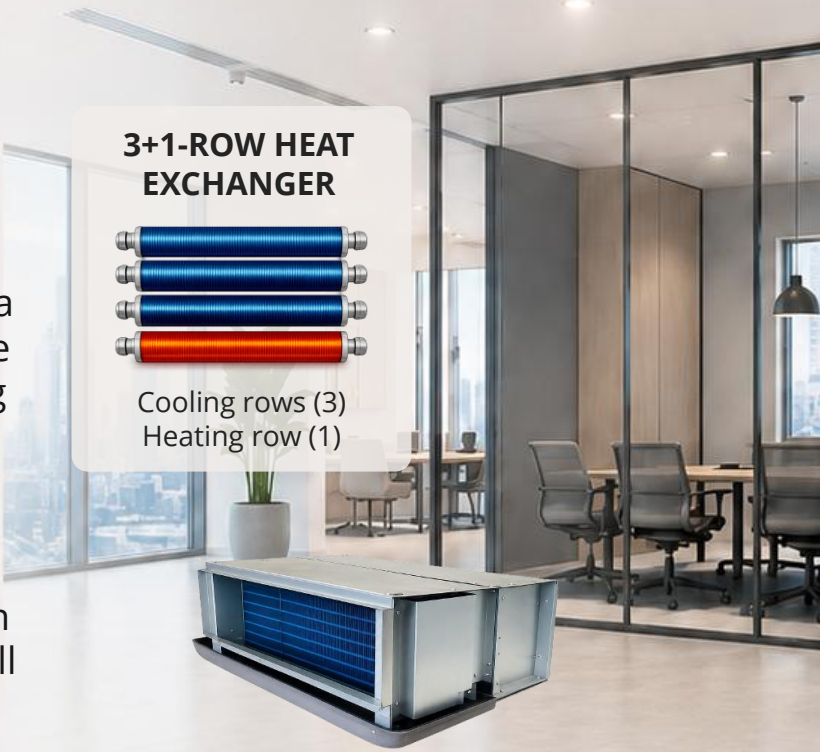
kW

Model			DF422-34-B-EC DF422-34-E-EC	DF422-51-B-EC DF422-51-E-EC	DF422-68-B-EC DF422-68-E-EC	DF422-85-B-EC DF422-85-E-EC	DF422-102-B-EC DF422-102-E-EC	DF422-136-B-EC DF422-136-E-EC	DF422-170-B-EC DF422-170-E-EC	DF422-204-B-EC DF422-204-E-EC	DF422-238-B-EC DF422-238-E-EC
Air flow	m3/h	Max.	340	510	680	850	1020	1360	1700	2040	2380
		Avg.	255	382	510	637	765	1122	1402	1683	1927
		Min.	170	255	340	425	510	850	1062	1275	1487
Total cooling capacity 7/12/25 °C	kW	Max.	1 387	2 026	2 676	3 336	4 022	4 881	5 570	6 856	7 418
		Avg.	1 193	1 742	2 301	2 869	3 459	4 198	4 790	5 896	6 379
		Min.	874	1 276	1 686	2 101	2 534	3 075	3 509	4 319	4 673
Sensible cooling capacity 7/12/25 °C	kW	Max.	1 221	1 739	2 344	2 876	3 401	4 191	4 885	5 983	6 459
		Avg.	1 050	1 496	2 016	2 474	2 925	3 604	4 201	5 145	5 554
		Min.	769	1 096	1 477	1 812	2 143	2 640	3 077	3 769	4 069
Heating capacity 75/65/20 °C	kW	Max.	4 370	6 340	8 480	10 440	12 475	14 895	17 525	21 275	22 865
		Avg.	3 627	5 262	7 038	8 665	10 354	12 363	14 546	17 658	18 978
		Min.	3 190	4 628	6 190	7 621	9 107	10 873	12 793	15 531	16 691
Power supply voltage			220-230V / 1 Ph / 50 or 60Hz								
Max. power	W	12Pa	17	20	36	44	56	78	88	114	139
		30Pa	26	34	42	51	63	91	101	140	166
		50Pa	29	38	49	56	80	101	125	173	208
Max. current	A	12Pa	0.07	0.09	0.16	0.19	0.24	0.34	0.38	0.50	0.60
		30Pa	0.11	0.15	0.18	0.22	0.27	0.40	0.44	0.61	0.72
		50Pa	0.13	0.17	0.21	0.24	0.35	0.44	0.54	0.75	0.90
Max. sound level	dB(A)	12Pa	35	37	39	41	43	44	46	48	50
		30Pa	38	40	42	44	45	46	48	50	52
		50Pa	40	42	44	45	47	48	50	52	54
Max. water flow	l/h	Cooling	238	348	460	574	692	839	958	1179	1276
		Heating	376	545	729	898	1073	1281	1507	1829	1966
Max. pressure loss	kPa	Cooling	20	20	20	30	40	40	40	40	50
		Heating	7	15	10	14	25	20	16	16	20
Max. working pressure	Mpa		1.6								
Insulation class			E								
Fan type			Centrifugal								
Motor type			EC motor with 0-10 V control								
Heat exchanger type			4-pipe / 2+2-row								
Heat exchanger material			Copper - aluminium								
Pipe connections			3/4" internal thread								
Condensate pipe connections			3/4" external thread								
Unit dimensions (L/W/H)	mm		680*493*240	880*493*240	980*493*240	1080*493*240	1180*493*240	1380*493*240	1480*493*240	1880*493*240	1880*493*240
Package dimensions (L/W/H)	mm		690*505*250	890*505*250	990*505*250	1090*505*250	1190*505*250	1390*505*250	1490*505*250	1890*505*250	1890*505*250
Net weight	kg		12.8	14.1	17.0	18.0	19.4	26.7	28.4	33.2	33.8
Gross weight	kg		14.0	15.4	18.5	19.7	21.2	29.0	30.8	36.2	36.8

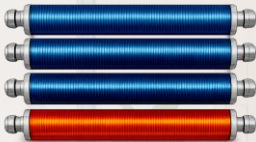
DF431 AC

4-PIPE DUCTED FAN COIL WITH AC MOTOR 3+1-ROW HEAT EXCHANGER

DF431 AC ducted fan coils with a 3+1-row heat exchanger provide greater cooling capacity, making them ideal for facilities where cooling demand dominates but efficient heating is also needed. High performance, reliable operation and a compact design ensure comfort and efficiency all year round.



3+1-ROW HEAT EXCHANGER



Cooling rows (3)
Heating row (1)



4-PIPE SYSTEM

Independent heating and cooling.



AC MOTOR

A reliable asynchronous fan motor.



HEATING AND COOLING

Comfort in all seasons.



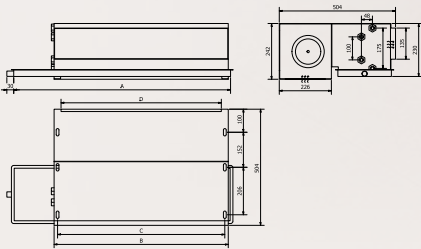
3+1 HEAT EXCHANGER

Greater cooling capacity, a more flexible choice.

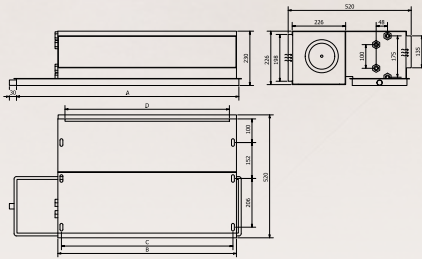
WHEN TO CHOOSE 3+1?

- ✓ Offices
- ✓ Shopping centres
- ✓ Glass facades
- ✓ Projects dominated by cooling

REAR AIR INTAKE



BOTTOM AIR INTAKE



Model	DF431-34-B-AC	DF431-51-B-AC	DF431-68-B-AC	DF431-85-B-AC	DF431-102-B-AC	DF431-136-B-AC	DF431-170-B-AC	DF431-204-B-AC	DF431-238-B-AC
	DF431-34-E-AC	DF431-51-E-AC	DF431-68-E-AC	DF431-85-E-AC	DF431-102-E-AC	DF431-136-E-AC	DF431-170-E-AC	DF431-204-E-AC	DF431-238-E-AC
A	640	740	940	1040	1140	1340	1140	1740	1840
B	505	585	755	840	965	1160	1260	1510	1620
C	475	555	725	810	935	1130	1230	1480	1590
D	445	525	695	780	905	1100	1200	1450	1560

TECHNICAL DATA

DF431 AC



AIR FLOW
340-2380
m³/h



COOLING CAPACITY
1,0-9,3
kW



HEATING CAPACITY
2,8-16,1
kW

Model			DF431-34-B-AC DF431-34-E-AC	DF431-51-B-AC DF431-51-E-AC	DF431-68-B-AC DF431-68-E-AC	DF431-85-B-AC DF431-85-E-AC	DF431-102-B-AC DF431-102-E-AC	DF431-136-B-AC DF431-136-E-AC	DF431-170-B-AC DF431-170-E-AC	DF431-204-B-AC DF431-204-E-AC	DF431-238-B-AC DF431-238-E-AC
Air flow	m3/h	Max.	340	510	680	850	1020	1360	1700	2040	2380
		Avg.	255	382	510	637	765	1122	1402	1683	1927
		Min.	170	255	340	425	510	850	1062	1275	1487
Total cooling capacity 7/12/25 °C	kW	Max.	1 636	2 304	3 036	3 498	4 511	5 996	6 833	8 882	9 294
		Avg.	1 407	1 982	2 611	3 008	3 880	5 157	5 876	7 638	7 993
		Min.	1 031	1 452	1 913	2 204	2 842	3 778	4 305	5 595	5 855
Sensible cooling capacity 7/12/25 °C	kW	Max.	1 403	2 007	2 632	3 028	3 965	5 225	5 980	7 224	7 977
		Avg.	1 207	1 726	2 263	2 604	3 410	4 494	5 143	6 212	6 860
		Min.	884	1 264	1 658	1 908	2 498	3 292	3 767	4 551	5 025
Heating capacity 75/65/20 °C	kW	Max.	2 770	3 725	5 215	6 430	8 530	9 345	11 490	12 620	16 120
		Avg.	2 382	3 204	4 485	5 530	7 336	8 037	9 881	10 853	13 863
		Min.	2 022	2 719	3 807	4 694	6 227	6 822	8 388	9 213	11 768
Power supply voltage			220~230V / 1Ph / 50 or 60Hz								
Max. power	W	12Pa	28	34	55	68	87	125	152	185	205
		30Pa	42	55	68	87	108	142	174	210	253
		50Pa	49	66	84	100	118	174	210	250	300
Max. current	A	12Pa	0.12	0.15	0.24	0.30	0.38	0.54	0.66	0.80	0.89
		30Pa	0.18	0.24	0.30	0.38	0.47	0.62	0.76	0.91	1.10
		50Pa	0.21	0.29	0.37	0.43	0.51	0.76	0.91	1.09	1.30
Max. sound level	dB(A)	12Pa	34	35	38	42	43	44	46	48	49
		30Pa	37	38	41	44	45	46	48	48	49
		50Pa	42	44	46	47	49	50	52	54	56
Max. water flow	l/h	Cooling	281	396	522	602	776	1031	1175	1527	1598
		Heating	238	320	448	553	733	804	988	1085	1386
Max. pressure loss	kPa	Cooling	20	20	20	30	40	40	40	40	50
		Heating	0.8	1.4	2.5	4.7	1.6	2.0	3.4	29	14
Max. working pressure	Mpa		1.6								
Insulation class			E								
Fan type			Centrifugal								
Motor type			Asynchronous 4-speed AC motor								
Heat exchanger type			4-pipe / 3+1-row								
Heat exchanger material			Copper – aluminium								
Pipe connections			3/4" internal thread								
Condensate pipe connections			3/4" external thread								
Unit dimensions (L/W/H)	mm		680*493*240	880*493*240	980*493*240	1080*493*240	1180*493*240	1380*493*240	1480*493*240	1880*493*240	1880*493*240
Package dimensions (L/W/H)	mm		690*505*250	890*505*250	990*505*250	1090*505*250	1190*505*250	1390*505*250	1490*505*250	1890*505*250	1890*505*250
Net weight	kg		12.8	14.1	17.0	18.0	19.4	26.7	28.4	33.2	33.8
Gross weight	kg		14.0	15.4	18.5	19.7	21.2	29.0	30.8	36.2	36.8

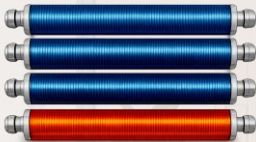
DF431 EC

4-PIPE DUCTED FAN COIL WITH EC MOTOR

3+1-ROW HEAT EXCHANGER

DF431 EC ducted fan coils with a 3+1-row heat exchanger are designed for projects where cooling demand dominates but efficient heating is also needed. The EC motor ensures maximum energy efficiency, precise air-flow control and quiet operation across the entire operating range.

3+1-ROW HEAT EXCHANGER



Cooling rows (3)
Heating row (1)



4-PIPE SYSTEM

Independent heating and cooling.



AC MOTOR

A reliable asynchronous fan motor.



HEATING AND COOLING

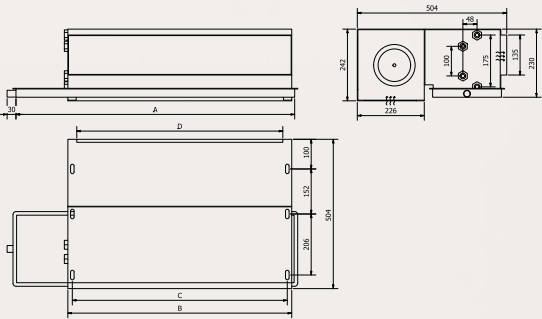
Comfort in all seasons.



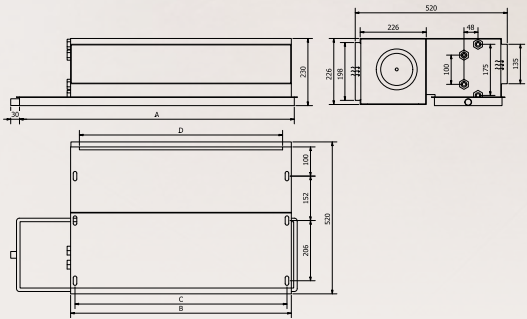
3+1 HEAT EXCHANGER

Greater cooling capacity, a more flexible choice.

REAR AIR INTAKE



BOTTOM AIR INTAKE



Model	DF431-34-B-EC	DF431-51-B-EC	DF431-68-B-EC	DF431-85-B-EC	DF431-102-B-EC	DF431-136-B-EC	DF431-170-B-EC	DF431-204-B-EC	DF431-238-B-EC
	DF431-34-E-EC	DF431-51-E-EC	DF431-68-E-EC	DF431-85-E-EC	DF431-102-E-EC	DF431-136-E-EC	DF431-170-E-EC	DF431-204-E-EC	DF431-238-E-EC
A	640	740	940	1040	1140	1340	1140	1740	1840
B	505	585	755	840	965	1160	1260	1510	1620
C	475	555	725	810	935	1130	1230	1480	1590
D	445	525	695	780	905	1100	1200	1450	1560

TECHNICAL DATA

DF431 EC



AIR FLOW
340-2380
m³/h



COOLING CAPACITY
1,0-9,3
kW



HEATING CAPACITY
2,0-16,1
kW

Model			DF431-34-B-EC DF431-34-E-EC	DF431-51-B-EC DF431-51-E-EC	DF431-68-B-EC DF431-68-E-EC	DF431-85-B-EC DF431-85-E-EC	DF431-102-B-EC DF431-102-E-EC	DF431-136-B-EC DF431-136-E-EC	DF431-170-B-EC DF431-170-E-EC	DF431-204-B-EC DF431-204-E-EC	DF431-238-B-EC DF431-238-E-EC
Air flow	m3/h	Max.	340	510	680	850	1020	1360	1700	2040	2380
		Avg.	255	382	510	637	765	1122	1402	1683	1927
		Min.	170	255	340	425	510	850	1062	1275	1487
Total cooling capacity 7/12/25 °C	kW	Max.	1 636	2 304	3 036	3 498	4 511	5 996	6 833	8 882	9 294
		Avg.	1 407	1 982	2 611	3 008	3 880	5 157	5 876	7 638	7 993
		Min.	1 031	1 452	1 913	2 204	2 842	3 778	4 305	5 595	5 855
Sensible cooling capacity 7/12/25 °C	kW	Max.	1 403	2 007	2 632	3 028	3 965	5 225	5 980	7 224	7 977
		Avg.	1 207	1 726	2 263	2 604	3 410	4 494	5 143	6 212	6 860
		Min.	884	1 264	1 658	1 908	2 498	3 292	3 767	4 551	5 025
Heating capacity 75/65/20 °C	kW	Max.	2 770	3 725	5 215	6 430	8 530	9 345	11 490	12 620	16 120
		Avg.	2 382	3 204	4 485	5 530	7 336	8 037	9 881	10 853	13 863
		Min.	2 022	2 719	3 807	4 694	6 227	6 822	8 388	9 213	11 768
Power supply voltage			220~230V / 1Ph / 50 or 60Hz								
Max. power	W	12Pa	17	20	36	44	56	78	88	114	139
		30Pa	26	34	42	51	63	91	101	140	166
		50Pa	29	38	49	56	80	101	125	173	208
Max. current	A	12Pa	0.07	0.09	0.16	0.19	0.24	0.34	0.38	0.50	0.60
		30Pa	0.11	0.15	0.18	0.22	0.27	0.40	0.44	0.61	0.72
		50Pa	0.13	0.17	0.21	0.24	0.35	0.44	0.54	0.75	0.90
Max. sound level	dB(A)	12Pa	35	37	39	41	43	44	46	48	50
		30Pa	38	40	42	44	45	46	48	50	52
		50Pa	40	42	44	45	47	48	50	52	54
Max. water flow	l/h	Cooling	281	396	522	602	776	1031	1175	1527	1598
		Heating	238	320	448	553	733	804	988	1085	1386
Max. pressure loss	kPa	Cooling	20	20	20	30	40	40	40	40	50
		Heating	0.8	1.4	2.5	4.7	1.6	2.0	3.4	29	14
Max. working pressure	Mpa		1.6								
Insulation class			E								
Fan type			Centrifugal								
Motor type			EC motor with 0-10 V control								
Heat exchanger type			4-pipe / 3+1-row								
Heat exchanger material			Copper – aluminium								
Pipe connections			3/4" internal thread								
Condensate pipe connections			3/4" external thread								
Unit dimensions (L/W/H)	mm		680*493*240	880*493*240	980*493*240	1080*493*240	1180*493*240	1380*493*240	1480*493*240	1880*493*240	1880*493*240
Package dimensions (L/W/H)	mm		690*505*250	890*505*250	990*505*250	1090*505*250	1190*505*250	1390*505*250	1490*505*250	1890*505*250	1890*505*250
Net weight	kg		12.8	14.1	17.0	18.0	19.4	26.7	28.4	33.2	33.8
Gross weight	kg		14.0	15.4	18.5	19.7	21.2	29.0	30.8	36.2	36.8

CONTROL

LINE-UP OF CONTROL SOLUTIONS FOR AC AND EC VERSIONS

DF fan coils are controlled with IR remote controls (included in standard set) or/and with wired controllers TW 230-3 or FC 280 depending on fan type.

All models have BMS integration as a standard.

Choose the solution that best matches your project needs and control strategy.



IR REMOTE CONTROL FOR ALL MODELS

- ✓ 3-speed fan control
- ✓ Heating / cooling control
- ✓ LCD display with touch buttons



TW 230-3

THERMOSTAT FOR MODELS WITH AC FANS

- ✓ 3-speed fan control
- ✓ Heating / cooling control
- ✓ LCD display with touch buttons



FC 280

THERMOSTAT FOR MODELS WITH EC FANS

- ✓ 3-speed fan control
- ✓ Heating / cooling control
- ✓ LCD display with touch buttons

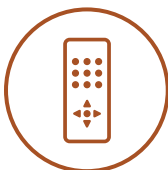
KEY FUNCTIONS



Heating / cooling control



Fan-speed adjustment



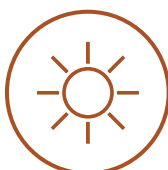
Precise temperature control



BMS integration



Energy-use optimization



Quiet and reliable operation

INSTALLATION AND CONNECTION



Easy installation. Reliable operation.



EASY INSTALLATION

A compact design and universal mounting ensure fast and convenient installation.



EASY SERVICING

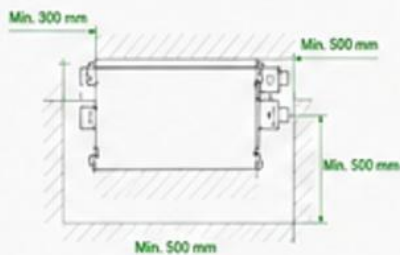
Access to the main components simplifies maintenance and operation.



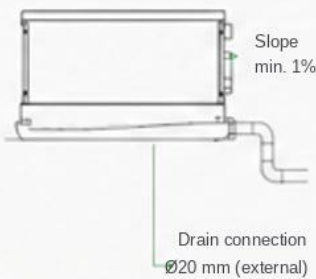
CONDENSATE DRAINAGE

An integrated sloped condensate drain pan ensures reliable water system operation.

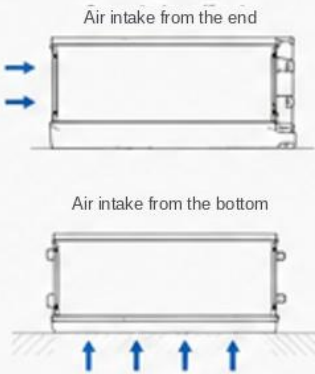
MINIMUM SERVICE CLEARANCES CONDENSATE DRAINAGE



Access to service zone

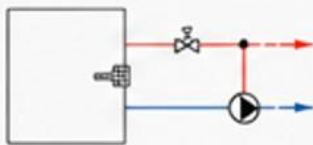


CONNECTION TO AIR DUCTS



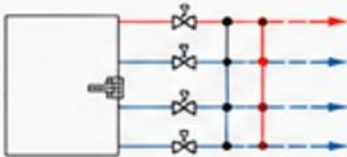
HYDRAULIC CONNECTIONS

2-PIPE SYSTEM



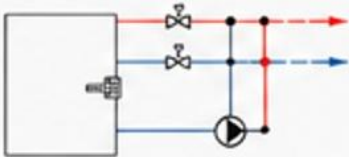
One heat exchanger connection is the water inlet, the other the outlet. Suitable for heating or cooling.

4-PIPE 2+2 SYSTEM



Each heat exchanger has separate water inlet and outlet connections. Balanced heating and cooling.

4-PIPE 3+1 SYSTEM



Higher cooling capacity: 3 rows for cooling, 1 row for heating.



IMPORTANT

Make all hydraulic connections using suitable sealing materials. A slope on the condensate line and proper system air venting must be ensured.



RECOMMENDED

Before commissioning the system, perform a pressure test, check the tightness of all connections and ensure hydraulic balancing.

ACCESSORIES

A wide range of accessories ensures convenient control, precise temperature regulation and smooth system operation.

01 THERMOSTATIC VALVE TVSP15



- Working temperature -10°C -120°C
- Thread 1/2"
- Pressure class PN10
- Kvs - 2,0

02 LOCKSHIELD (STRAIGHT) LS15



- Working temperature -10°C -120°C
- Thread 1/2"
- Pressure class PN10
- Kvs - 2,0

03 LOCKSHIELD (ANGLE) LA15



- Working temperature -10°C -120°C
- Thread 1/2"
- Pressure class PN10
- Kvs - 2,0

04 ACTUATOR FOR THERMOSTATIC VALVE A24NC



- Working voltage - 24 VDC
- Power - 2.5 W
- Protection class - IP54
- Connection thread - M30 x 1.5 mm
- Housing material PC/ABS

05 ROOM THERMOSTAT TW230-3



- Dimensions 88 x 88 x 43 mm
- Weekly temperature schedule programming
- Working temperature 5-35°C
- Working voltage - 230V DC, current - 3A
- Power - 1.5 W

06 ROOM THERMOSTAT FC 280



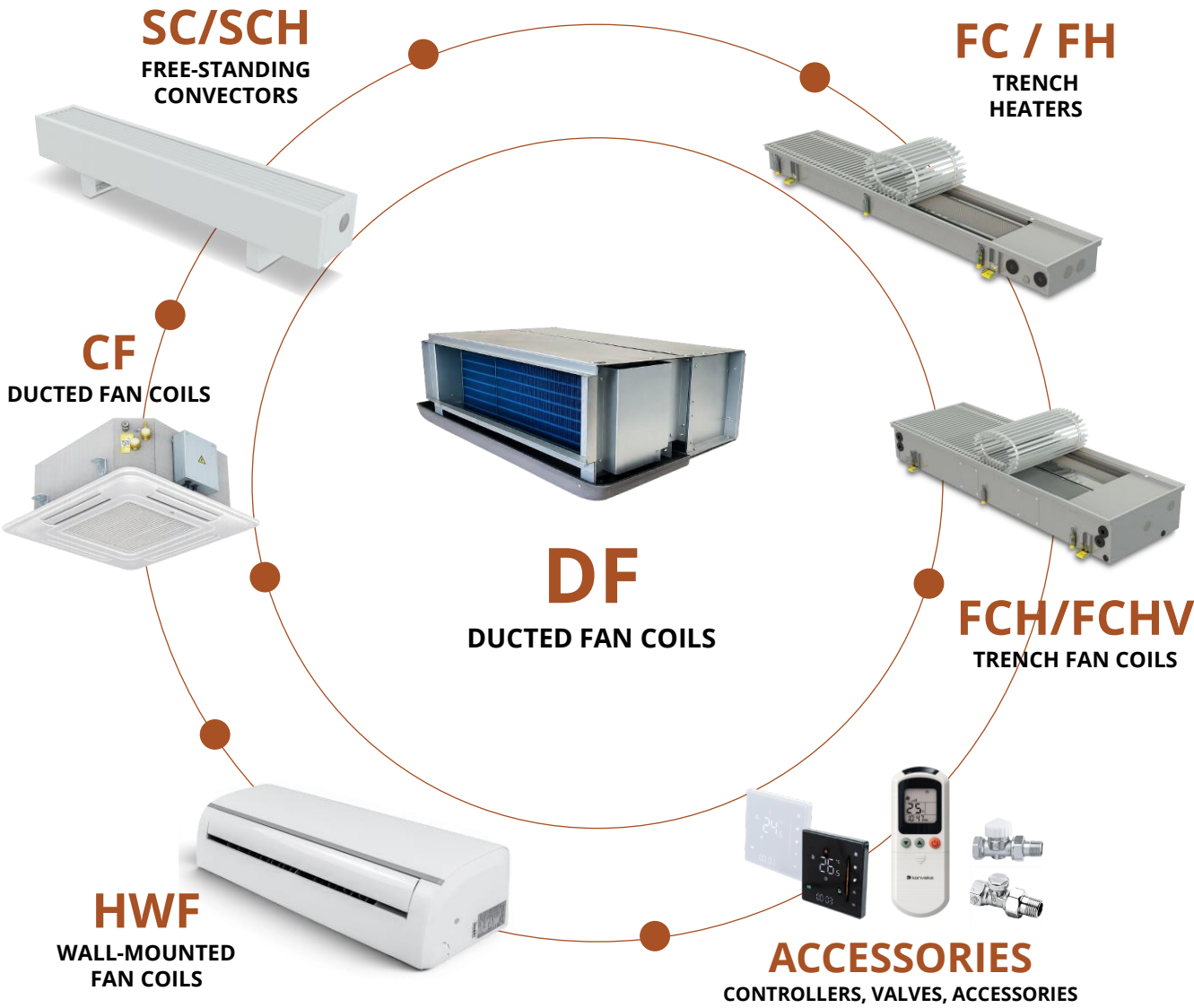
- Dimensions 88 x 88 x 43 mm
- Weekly temperature schedule programming
- Working temperature 5-35°C
- Working voltage - 230V AC, current - 3A
- Power - 1.5 W



Find the full range of accessories and technical information at www.konveka.com

KONVEKA PRODUCT ECOSYSTEM

Integrated solutions for heating and cooling — from heating and cooling to controls and accessories. Everything you need for a comfortable and efficient building environment.



OFFICES

Comfort for employees and efficient energy use.



HOTELS

Reliable solutions to ensure guest comfort.



COMMERCIAL SPACES

Flexible solutions for various types of spaces.



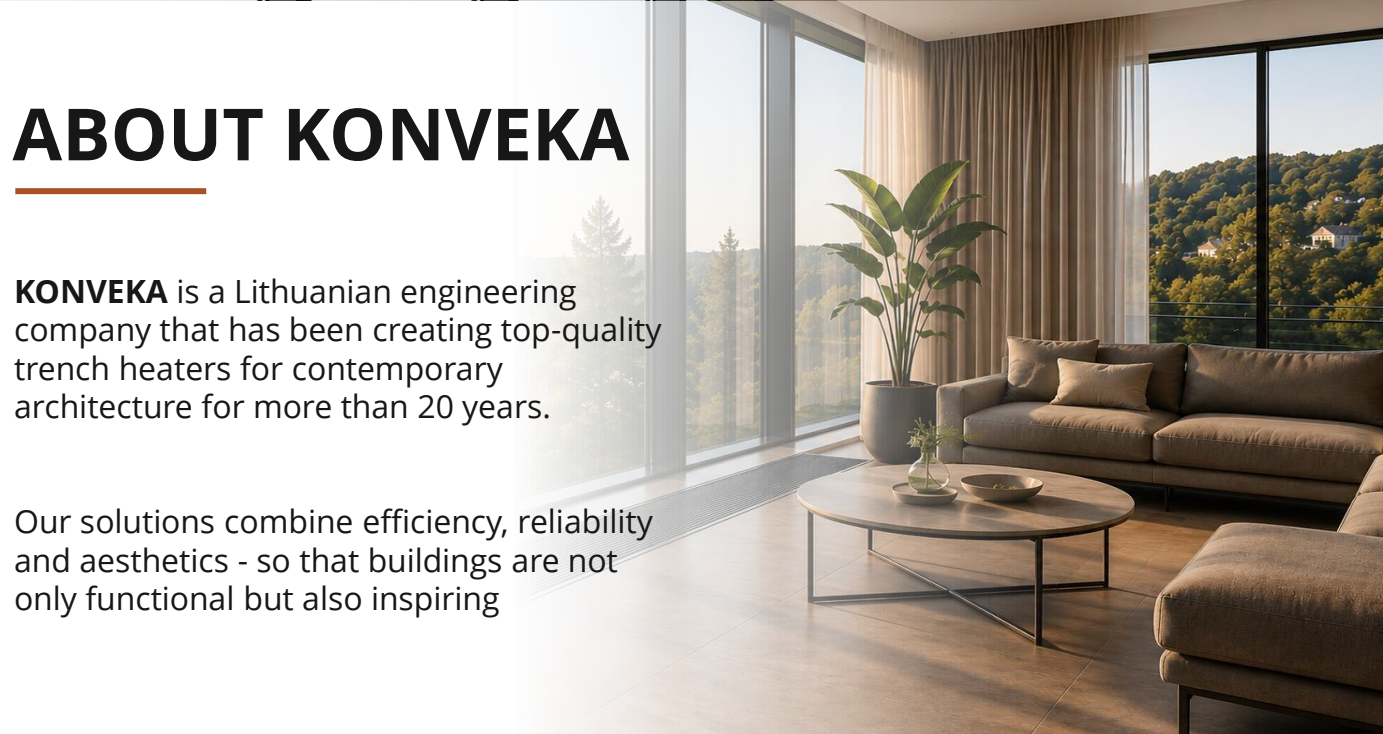
RESIDENTIAL PROJECTS

Aesthetics, quiet and comfort for a modern way of living.

ABOUT KONVEKA

KONVEKA is a Lithuanian engineering company that has been creating top-quality trench heaters for contemporary architecture for more than 20 years.

Our solutions combine efficiency, reliability and aesthetics - so that buildings are not only functional but also inspiring



20+

YEARS OF EXPERIENCE

For two decades we have specialized in the field of convectors and fan coils



30+

COUNTRIES

Our products are used worldwide



1 000+

COMPLETED PROJECTS

Reliable solutions in residential, commercial and public buildings



**EUROPEAN
ENGINEERING**

Created in Lithuania, to the highest quality standards

OUR VALUES



**ARCHITECTURE
FIRST**

We create products that naturally blend into modern architecture



RELIABILITY

Top-quality materials and strict quality control



EFFICIENCY

Maximum thermal efficiency and low energy consumption



COMFORT

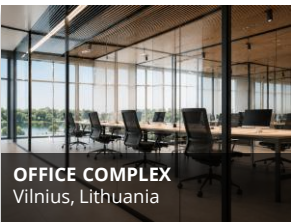
Quiet operation and even heat - for comfort every day



**FLEXIBLE
SOLUTIONS**

A wide range for any project

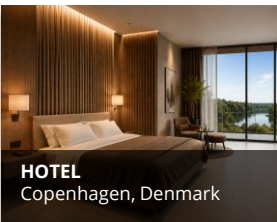
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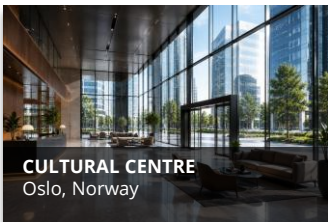
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